

Title (en)
Child restraint system

Title (de)
Kinderrückhaltesystem

Title (fr)
Système de retenue pour enfant

Publication
EP 0709264 A1 19960501 (EN)

Application
EP 95116601 A 19951020

Priority
US 32702294 A 19941021

Abstract (en)

A child restraint system (24) includes shoulder belts (26) and (28) which engage the shoulders of a child (12) seated in a vehicle. The shoulder belts (26) and (28) are connected with an abdomen shield (32). A buckle (38) connects the shield (32) with a base (16) of a seat (14). A pair of retractor assemblies (50) and (52) are mounted in the abdomen shield (32) to enable the shoulder belts (26) and (28) to be extended upon movement of the abdomen shield (32) away from the child (12) seated in the vehicle. Upon movement of the abdomen shield (32) toward the child (12) seated in the vehicle, the retractor assemblies (50) and (52) retract the shoulder belts (26) and (28). The retractor assemblies (50) and (52) include spools (60) and (70) upon which the shoulder belts (26) and (28) are wound during retraction of the shoulder belts and unwound during extension of the shoulder belts. Latch pawls (66) and (76) are engageable with ratchet wheels (64) and (74) connected to the spools (60) and (70) to lock the spools against extension of the shoulder belts (26) and (28) when the shield (32) is buckled to the base (16). Unbuckling of the abdomen shield (32) from the base (16) results in the latch pawls (66) and (76) being disengaged from the ratchet wheels (64) and (74) to enable the shoulder belts (26) and (28) to be freely extended. An actuator assembly (82) causes the latch pawls (66) and (76) to be disengaged from the ratchet wheels (64) and (74).

<IMAGE>
IPC 1-7
B60R 22/10; B60R 22/357; B60N 2/28

IPC 8 full level
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CPC (source: EP US)
B60N 2/2839 (2013.01 - EP US); **B60N 2/286** (2013.01 - EP US); **B60R 22/105** (2013.01 - EP US); **B60R 22/357** (2013.01 - EP US)

Citation (applicant)
US 4762369 A 19880809 - NICOD FREDERICK C [GB]

Citation (search report)

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